# Charter Township of Waterford: MS4 Progress Report

Reporting Period: November 1, 2017 - October 31, 2019

















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# **Part 1 – Contact Information:**

|   | First Name<br>Gary                              |                      | Last Name<br>Wall     |   |                       |                   |
|---|---|----------------------|-----------------------|---|-----------------------|-------------------|
| Application Contact Storm Water Program Manager Storm Water Billing     | Title Twp. Supervisor                           |                      | Business              |   |                       |                   |
|   | Address 1<br>5200 Civic Center Drive            |                      | Address 2             |   |                       |                   |
|   | City<br>Waterford                               |                      | State<br>MI           |   | ZIP Code<br>48329     |                   |
|   | Telephone (with area code) FAX (with area code) |                      |                       | e-mail<br>gwall@waterfordmi.gov         |                       |                   |
|   | First Name<br>Rob                               |                      | Last Name<br>Merinsky |   |                       |                   |
| ☐ Application Contact ☑Storm WaterProgram Manager ☐Storm WaterBilling   | Title Development Services Director             |                      | Busir                 | Business                                |                       |                   |
|   | Address 1<br>5200 Civic Center Drive            |                      | Address 2             |   |                       |                   |
|   | City<br>Waterford                               |                      | State<br>MI           |   | _                     | ZIP Code<br>48329 |
|   | Telephone (with area code)<br>248-674-6247      | FAX (with area code) |                       | e-mail<br>rmerinsky@waterfordmi.<br>gov |                       |                   |
|   | First Name<br>Rob                               |                      | Last Name<br>Merinsky |   |                       |                   |
| ☐ Application Contact ☐ Storm WaterProgram Manager ☑ Storm WaterBilling | Title Development Services Director             |                      | Business              |   |                       |                   |
|   | Address 1<br>5200 Civic Center Drive            |                      | Address 2             |   |                       |                   |
|   | City<br>Waterford                               |                      |                       | State<br>MI                             |                       | Zip Code<br>48329 |
|   | Telephone (with area code)<br>248-674-6247      | rm                   |                       | e-mail<br>rmerinsky@<br>gov             | merinsky@waterfordmi. |                   |

#### Part 2 - Introduction:

Polluted stormwater runoff is often transported through municipal separate storm sewer systems (MS4) and ultimately discharged into local rivers and streams without treatment. The Environmental Protection Agency's Storm water Phase II Rule establishes an MS4 storm water management program that is intended to improve the nation's waterways by reducing the quantity of pollutants that storm water carries into storm sewer systems during storm events.

Waterford Township has prepared this Phase II Biennial Progress Report in compliance with the Township's current Certificate of Coverage (CoC) issued by the Michigan Department of Environmental Great Lakes and Energy (EGLE) and it highlights the activities implemented by Waterford Township between November 1, 2017 to October 31, 2019 to protect to restore water resources throughout the community. A copy of Waterford Township's Biennial Progress Report will be available on the Township's web site after November 1, 2019.

## **Public Participation Procedure:**

As required, all local public notice requirements were followed during this reporting period. The progress report submitted to EGLE, will be posted on the website to update the public and invite them to participate or provide input related to the implementation of the program if they choose to.

Further, all pertinent supporting documents (template manuals, progress reports, implementation materials, brochures, quarterly newsletters, annual reports, etc.) will be made available on the website. In addition, Waterford Township maintains a calendar that announces public meeting information, workshops, trainings and events. Staff also recognizes the importance of social media. Our existing Facebook account help us to reach out to different demographics and reach larger audience and Waterford Township will continue to utilize social media as a communication and outreach tool.

# Part 3: Public Education Program (PEP) Highlights

The following is a list of activities that Waterford Township performed in accordance with the implementation schedule found within the Township's *Public Education Program* document prepared in part to obtain Certificate of Coverage (COC) No. MIG610263.

# (A) Promote public responsibility and stewardship in the applicant's watershed(s).

Waterford Township continues to maintain 34 watershed signs at road and river crossings. These signs have a consistent look with others installed throughout Southeast Michigan and all contain the message, "Ours to Protect," the main message of SEMCOG's "Our Water. Our Future. Ours to Protect—Seven Simple Steps to Clean Water" public education campaign.

Watershed sign on Crescent Lake Road at Clinton River crossing



\*\*



Ground water contaminant demonstration

Waterford Township did not participate in the 2018 and 2019 Annual Clinton River Water Festivals. However, the hands on demonstration traditionally given by DPW staff at the Water Festival was presented at Library for local children.

❖ Waterford Township through the Parks & Recreation Department, Drayton Plains Nature Center, Hess-Hatheway Farm offered water quality related classes and content for students and residents. These events helped educate kids and parents about watershed awareness, water resource awareness, water environments, weather impact, pollution prevention, source water protection, water conservation, infiltration, etc. Specifically, a total of 509 students and residents attended either the Guided Evening Nature Walks at the Drayton Plains Nature Center, Wildlife Wednesdays, the Pre-School Nature Enthusiasts Camp, the Nature Discovery Camp, the Nature Survival Camp, or the Fantastic Discoveries class offered during the reporting Cycle.

□ 2018 & 2019 Parks & Recreation brochures □ 2018 & 2019 Parks & 2019 Parks

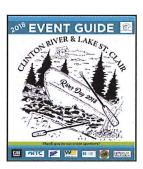
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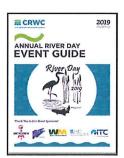




On June 9 & 10, 2018 and June 8, 2019 the Clinton River Watershed Council coordinated and/or promoted several annual "River Day" events. Every year, individuals, businesses, community groups, and local governments across the Clinton River Watershed join forces to protect, enhance, and celebrate the Clinton River and Lake St. Clair. Activities range from nature hikes, canoe trips, fishing derbies, fly fishing lessons, storm drain stenciling, river clean-ups, habitat restoration, and native landscaping. Waterford Township promoted and advertised this event on the Environmental

Resource Center webpage (86 hits during the months of April/May 2018 and 62 hits during the months of April/May 2019) and made fliers available to public at the counter of several Departments.





CRWC 2018 & 2019 River Dav event guides

❖ On April 22, 2018 and April 21, 2019 Waterford Township, the Waterford School Distric, and other community organizations held a clean-up event in conjunction with "Earth Day" in which trash and rubbish was collected along roadways and in visible areas in the Township. In total, there were over 300 volunteers and just under 400 cubic yards of debris/trash collected.



2018 & 2019 Earth Day Volunteers at Optimist Park & Historical Village



❖ On October 9, 2019 Clerk Kim F. Markee of Waterford Township hosted a Clinton River Walk clean-up event(s) where volunteers removed trash and cleared brush along the Township's Clinton River Walkway near M-59. 12 volunteers collected approximately 3 cubic yards of trash.

Waterford Township Board of Trustees: Meeting agenda announcement item

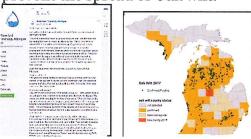
and games and much morel For more information and activity prices, vis

2 VIE. Fall River Wall Clean Up

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The Citron River Water Shad Council and the Waterford Touriship Cliek, Kim Markes
will boat al all River Water Clean by on Wethersday, Coldest 5th from 1900 as in to coon. Please bring glores, cales and teaps. Path behind Planet Fitness on the Northwest course of Creasent Lake Rid and Highland Rid. Myou have any operations, call Kim Markes on 1245 614 61111. Additional information can be obtained all warm cruck our order. Weekly Cleans?

21X Libraries For Life

❖ Waterford Township promoted educational material provided by the MDNR and the Michigan Oak Wilt Coalition on the importance best management practices to prevent the spread of Oak wilt.



Facebook post on Oak Wilt and Oak Wilt county status map MichiganOakWilt.org

- Through Waterford Township's website a direct link to the website's for SEMCOG, Clinton River Watershed Council, Michigan State University Extension, Oakland County, EPA, and EGLE was provided to all those that visit the Township's Watershed Management information webpage.
- ❖ The WRC's "New Homeowners Guide to Soil Erosion Control" February 2009 pamphlet was made available at the Waterford Township Building & Engineering Department's counter. To date, 22 copies have been picked up.
- The WRC's "Oakland County's 24-Hour Pollution Hotline" pamphlet was made available at the Waterford Township Building & Engineering Department's counter. To date, 17 copies have been picked up.
- (B) Inform and educate the public about the connection of the MS4 to area waterbodies and the potential impacts discharges could have on surface waters of the state.
  - Development Services staff attended SEMCOG University: One Water Campaign workshop on April 17, 2019 at SEMCOG offices in Detroit, MI. After the workshop staff promoted the campaign at Township Offices, enewsletter, the local access channel, and through social media outlets. The Township's enewsletter has over 1,000 subscribers and the official Facebook page has 4,663 follow the page.

SEMCOG's One Water campaign material





The Development Services Department maintains a *Watershed Management* information webpage available to anyone to view through the Township's website. The page is included with other useful environmentally related topics that can be viewed through the *Environmental Resource Center* page. A direct link has been provided on the Township's homepage which is http://www.twp.waterford.mi.us. A total number of 801 hits have been recorded for the *Environmental Resource Center* page during this reporting cycle.

- ❖ Waterford Township promotes events and provides information related to the six minimum measures meant to educate municipal staff, elected officials, and the public on its enewsletter (Waterford Insider) and on social media outlets (Facebook). It also provides information relevant to partner events. The Township's enewsletter has over 1,000
- ❖ In addition, the previous Progress Report was made available for viewing at the Development Services counter. A total of 5,263people had an opportunity to view the Progress Report as 4,819 permits were issued and 450 NO HAZ vouchers were obtained during the reporting period.

subscribers and the official Facebook page has 4,663 followers.

Sample Facebook post and enewsletter article





2016/2017 MS4 Progress Report Cover



- The WRC's "New Homeowners Guide to Soil Erosion Control" February 2009 pamphlet was made available at the Waterford Township Building & Engineering Department's counter. To date, 13 copies have been picked up.
- ❖ The WRC's "Oakland County's 24-Hour Pollution Hotline" pamphlet was made available at the Waterford Township Building & Engineering Department's counter. To date, 15 copies have been picked up.
- (C) Educate the public on illicit discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4.
  - Through Waterford Township's website a direct link to the website's for SEMCOG, Clinton River Watershed Council, Michigan State University Extension, Oakland County, EPA, and MDEQ was provided to all those that visit the Township's Watershed Management information webpage. A total number of 801 hits have been recorded for the Environmental Resource Center page during this reporting cycle.
  - ❖ Upon direction from the Township Board in an effort to better address blight, language was added to the Township's "Waste Materials Control Ordinance" granting the Zoning Official authority to engage the services of a waste hauler to remove garbage from a zoning lot if a property owner fails to comply with the ordinance after one week of written notice. Subsequently, Code Enforcement staff working under the Zoning Official started posting "seven day notices" on zoning lots found to be in violation. In 2018, 38 notices were posted and the Township had to act upon 3. In 2019, 25 notices were posted and the Township had to act upon 1. This has resulted in the removal and proper disposal of approximately 110 yards of garbage, junk, refuse, rubbish, and/or trash.

Waterford Township has a Workflow complaint response and tracking system and during this reporting cycle 77 complaints under the categories wetlands, woodlands, litter, lowland fill, drainage, other, site plan, construction, or abandoned container were inspected by Waterford Township. These inspections resulted in 17 correction letters being processed, and 6 civil infractions issued for violations of the Township's local codes and ordinances.

Waterford Township continues to utilize CivicReady to disseminate important messages regarding the safety or welfare of the community. Examples include water service emergencies, lost children or seniors, and hazardous situations that impact safety, property or welfare of our citizens. This service allows Township officials to send out emergency notifications by phone or other contact methods to thousands of residents within minutes. No messages regarding illicit discharges were processed during the reporting period.

# (D) Promote preferred cleaning materials and procedures for car, pavement, and power washing.

\* Helpful flyers and brochures developed by the CRWC, HRWC, WRC, MSU Extension, SEMCOG, EGLE, EPA, and many others under the headings West Nile Virus, Trees Deceases and Insects, Gypsy Moth, Fall Webworm & Eastern Tent Caterpillar, General Watershed & Storm water, Yard and Garden Maintenance Information, Fertilizer, Landscaping, Native Landscaping, Rain Gardens, Riparian Land Owners information, Pest Management, Boat & Auto care, Household Hazardous Waste, Other information on our Flyers & Brochures link accessed though the Environmental Resources Center page (131 hits this reporting cycle)

Sample screenshot of flyers linked to

Part Series (PCF)

Boat & Auto Care

• A Closer Solds to Soil and Auto Care (PCF)

• A Guide for a Care Bearth Environment (PCF)

Household Hazardous Waste
• A Ciner's Guide to Household Heading Waste (PCF)

The Parks & Recreation Department installed a new sign educating individuals on proper watercraft cleaning to prevent the spread of invasive species at the Township's canoe launch.

Prevent Invasive Species sign Waterford Canoe Launch site



- (E) Inform and educate the public on proper application and disposal of pesticides, herbicides, and fertilizers.
- \* Helpful flyers and brochures developed by the CRWC, HRWC, WRC, MSU Extension, SEMCOG, EGLE, EPA, and many others under the headings West Nile Virus, Trees Deceases and Insects, Gypsy Moth, Fall Webworm & Eastern Tent Caterpillar, General Watershed & Storm water, Yard and Garden Maintenance Information, Fertilizer, Landscaping, Native Landscaping, Rain Gardens, Riparian Land Owners information, Pest Management, Boat & Auto care, Household Hazardous Waste, Other information on our Flyers & Brochures link accessed though the Environmental Resources Center page (131 hits this reporting cycle, see images below).

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Sample screenshot of flyers linked to Township's Environmental Resource Center

- (F) Promote proper disposal practices for grass clippings, leaf litter, and animal wastes that may enter into the MS4.
  - ❖ The Waterford Township Parks & Recreation Department maintains 20 "Please do not feed the Geese" warning signs at the Drayton Plains Nature Center and on the Main Township Campus. It is estimated that over 1,000 people have viewed the signs during this reporting period.



\* In 2016, the Waterford Township Parks & Recreation Department installed 4 pet waste collection stations with waste bags for pet owners visiting township parks and the main campus to utilize. It is reported that at least 80 bags were taken from each station during the reporting cycle. In addition, Waterford Township staff has worked with several multi-family residential complexes to have them install their own pet waste collection stations. It is anticipated that over 20 new stations and 400 bags of waste have resulted from this effort during this reporting cycle.



Pet waste collection station @ Hess-Hatheway Park

- (G) Identify and promote the availability, location, and requirements of facilities for collection or disposal of household hazardous waste, travel trailer sanitary wastes, chemicals, yard wastes, and motor vehicle fluids.
  - ❖ Waterford Township has partnered with the North Oakland Household Hazardous Waste Consortium (NO HAZ). NO HAZ provides residents of participating communities a safe and environmentally responsible way to dispose of Household Hazardous Waste (HHW). There were a total of 13 collection events that occurred during this reporting cycle and Waterford residents took advantage of each one. The collections were promoted on the website, posted on Facebook, in the enewsletter, Development Services Counter, Channel 17, and Library. Just through the Development Services Department it is known that there was 131 web hits on the Environmental Resource Center page, 4,819 permits were issued and 450 NO HAZ vouchers (2018). Further, there are 4,663 followers on the Township's Facebook page and over 1,000 subscribers to the Township's enewsletter. In part to the potential connection to 10,613 people as estimated above, a total of 65,000 pounds of waste was collected from 450 Waterford participants during the events in 2018 (Note 2019 collection data was not available at the time of preparing this report)

NO HAZ promotional material



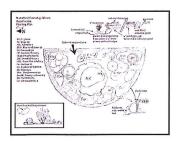




# (I) Educate the public on, and promote the benefits of, green infrastructure and Low Impact Development

❖ During the spring of 2019, Waterford Township with the help of volunteer efforts of Friends of the Library planned, designed, and constructed a new rain garden near the Library building. A copy of SEMCOGs "Low Impact Development Manual for Michigan: A Design Guide for Implementors and Reviewers was provided as a resource. 21 engaged stakeholders were involved from the start and were essential in determining the rain gardens location and which native plant species would be used. The built facility is now utilized to educate and inform patrons of the Library the importance of green infrastructure.







\* Helpful flyers and brochures developed by the CRWC, HRWC, WRC, MSU Extension, SEMCOG, EGLE, EPA, and many others under the headings West Nile Virus, Trees Deceases and Insects, Gypsy Moth, Fall Webworm & Eastern Tent Caterpillar, General Watershed & Storm water, Yard and Garden Maintenance Information, Fertilizer, Landscaping, Native Landscaping, Rain Gardens, Riparian Land Owners information, Pest Management, Boat & Auto care, Household Hazardous Waste, Other information on our Flyers & Brochures link accessed though the Environmental Resources Center page (131 hits this reporting cycle, see images below).

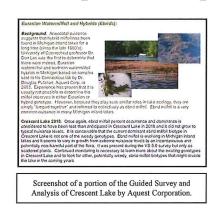


Sample screenshot of flyers linked to Township's Environmental Resource Center

Through Waterford Township's website a direct link to the website's for SEMCOG, Clinton River Watershed Council, Michigan State University Extension, Oakland County, EPA, and EGLE was provided to all those that visit the Township's Watershed Management information webpage. A total number of 131 hits have been recorded for the Environmental Resource Center page during this reporting cycle

#### (J) Promote methods for managing riparian lands to protect water quality.

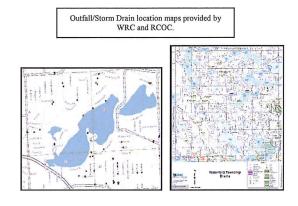
❖ On January of 2018, the Waterford Township Board of Trustees passed a resolution to tentatively establish a Special Assessment District (S.A.D.) to fund the eradication and treatment of invasive plants in Crescent Lake. The S.A.D. process was utilized to educate the riparian owners of invasive aquatic plants and the possible treatment protocols.



- On May 31, 2018 Waterford Township hosted the Waterford All Lakes Association's spring meeting in the Town Hall Auditorium. Topics of discussion included Lake Boards and Lake Water Management. The meeting was open to the public and 57 residents attended the meeting.
- On May 31, 2019 Waterford Township hosted the Waterford All Lakes Association's spring meeting in the Township Library. The scheduled topics of discussion was Lake Quality and Invasive Species. The meeting was open to the public and 64 residents attended the meeting.

# (K) Identify and educate commercial, industrial, and institutional entities likely to contribute pollutants to storm water runoff.

- During the reporting period a total of 23 site plans went before the Planning Commission. Further, 4 site improvement plans were submitted for acceptance by the Waterford Schools District. These proposals will result in a total of 109K cubic foot in detention, 8k cubic foot of leaching, 4.1k cubic foot of sedimentation, and 7.4k in bio-retention.
- Beginning in April 2019, Development Services staff was contacted by the Watkins Lakefront Owners Association in regarding mitigating effects of storm water run-off to Watkins Staff worked with the Lake. RCOC and the WRC to identify potential outfall locations and insure the groups mitigation complied with the efforts Township's standards.



- ❖ On May 28, 2019 Waterford Township staff inspected a gas station in response to a National Response Center complaint forwarded to the Township by the MDEQ. Staff verified via site inspection that the onsite oil separator was performing as designed and that clean-up efforts were ongoing. Best management practices were communicated with the management.
- ❖ On October 8, 2019 staff was contacted by the WRC regarding a report that a concrete truck was discharging to a storm drain on Dixie Highway. Staff from the Development Services Department and the MDOT performed site inspections and determined that no illicit discharge had taken place. As a precaution, Staff contacted the company and communicated best practice information with their safety department.

In summary, it is estimated that the following goals were accomplished Township wide through the activities cited in this Progress Report.

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|   | ACIIVIII   | MEASUNABLE GUAL(S)   |
|   | <ol> <li>34 signs have been posted in the watersheds</li> <li>Sponsor and/or promote an event as part of CRWCs<br/>annual River Day or Clinton Clean-up event</li> </ol>   | traffic count for M-59 where one set of signs are located alone exceed 38,000 VPD over 300 volunteers partipated in clean up events promoted/sponcored by Waterford Township   |
| (A) Fromote public responsibility and stewardship in the applicant's watershed(s).  | 3. Partner and support efforts through the Waterford<br>Township Parks & Recreation Department, the Drayton<br>Plains Nature Center, and the Hess-Hathaway Farm to<br>offer water quality related classes and content for<br>elementary students during the permit cycle | over 500 students/residents partipated in water quality/watershed stewardship classes offered<br>through the Waterford Township Parks and Recreation Department  |
| +-  | 1. Environmental Resources Center web page   | over 800 hits on the Environmental Resources Center web page this reporting cycle  |
| to area waterbodies and the potential impacts discharges could have on surface waters of the state.   | <ol> <li>Waterford Township newsletters and annual report</li> </ol>   | The Township's enewsletter (Waterford Insider) has over 1,000 subscribers and the official Facebook page has 4,663 followers. Various events, news, information, links, were promoted this reporting cycle   |
| (C) Educate the public on illicit discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4.  | local, couny, and state contact information maintained on website and department counter for reporting illicit discharges and acts of pollution. Staff will explore different delivery methods to make this information more accessible to the public                    | In 2018, 38 notices were posted and the Township had to act upon 3. In 2019, 25 notices were posted and the Township has to ut upon 1. Waterford Township has a Workflow complaint response and tracking system and during this reporting cycle? complaints under the categories wetlands, woodlands, litter, lowland fill, drainage, other, site plan, construction, or abandoned container were inspected by Waterford Township. This has resulted in the removal and proper disposal of approximately 110 yards of garbage, junk, refuse, rubbish, and/or trash.  |
| (D) Promote preferred cleaning materials and procedures for car, l pavement, and power washing  | <ol> <li>Display posters and have brockures covering: car washing,<br/>per waste, motor oil and fertilizer reduction available to public.</li> </ol>   | hard copies and digital forms of posters/brochures/flyers/tip cards were made available during the reporting period. Just through the Development Services Department it is known that there was 131 web hits on the Environmental Resource Center page, 4,819 permits were issued and 450 NO HAZ vouchers (2018). Further, there are 4,663 followers on the Township's Facebook page and over 1,000 subscribers to the Township's enewsletter. In part to the potential connection to 10,613 people as estimated above  |
| (E) Inform and educate the public on proper application and disposal of pesticides, herbicides, and fertilizers.  | SEE CORRESPONDING TOPIC G BELOW  |  |
| (F) Promote proper disposal practices for grass clippings, leaf   | <ol> <li>Continue to maintain signage at Township owned property<br/>regarding control of animal waste. New signs may be installed</li> </ol>  | 5 do not feed the greese signs posted maintained during reporting period; at least 24 pet waste collection<br>stations in Waterford Township. It is estimated that over 8,000 visits to the Township parks occurred during the   |
| (G) Identify and promote the availability, location, and requirements of facilities for collection or disposal of household lhazardous waste, travel trailer sanitary wastes, chemicals, yard kwastes, and motor vehicle fluids | <ol> <li>Promote local Household Hazardous Waste Collection and<br/>Recycling Events.</li> </ol>   | over 900 vehciles from Waterford Township participated in the 13 NO HAZ events; over 100 participants in the two prescription drug take back events  |
| (I) Educate the public on, and promote the benefits of, green infrastructure and Low Impact Development   | <ol> <li>Promote "Low Impact Development Manual for Michigan:<br/>A design Guide for Implementors and Reviewers", by<br/>SEMCOG, the Southeast Michigan Council of Governments.</li> </ol>   | 21 engaged volunteers designed and constructed a rain garden at the Township Library.  |
| iparian lands to protect water  | 1. website postings.   | over 800 hits on the Environmental Resources Center web page this reporting cycle  |
| quality:  | Public meetings  | 4 public meetings with over 70 attendees for the establishment of the Crescent Lake Special<br>Assessment District to fund the eradication of invasive aquatic plants  |
| (K) Identify and educate commercial, industrial, and institutional been titles likely to contribute pollutants to storm water runoff.   | <ol> <li>Educate business owners during site plan process, educate<br/>business owners when illicit discharges are<br/>reported/discovered.</li> </ol>   | During the reporting period a total of $z_3$ site plans went before the Planning Commission.   |

# Part 4: Illicit Discharge Elimination Program (IDEP) Highlights

Per the Township's Illicit Discharge Elimination Program, a progress report will be submitted to the EGLE on the implementation status of the IDEP. The report will cover all of the decisions, actions, and results performed as part of the IDEP since the previous reporting period. The Progress Report will include

Actions taken to address potential illicit discharges that could directly impact Township's MS4:

Under authorization from the Michigan Department of Natural Resources (MDNRE) Waterford Township staff removed 28 eggs from 4 nests located within the Township's retention pond over the two annual collection dates during the reporting period. Potential primary pollutant(s) of concern that were addressed through this action bacteria and nutrients.



\* Waterford Township's office paper recycling program has recovered and recycled approximately 81 cubic yards of paper, folders, and card board from the buildings on campus during this reporting cycle. In addition, Waterford Township initiated a plastic and non-refundable aluminum can recycling effort during this reporting cycle. Approximately, 90 cubic yards of material has been collected in these new bins. Potential primary pollutant(s) of concern that were

addressed through this action are plastic, litter, sediment, and debris.

Waterford Township office recycle bins





On the first Saturday of each month a collection of old magazines, paper, and card board takes place between 9:00am to 1:00pm at the Town Hall Building. The collection is open to all Township residents and approximately 633 cubic yards of material has been collected this reporting cycle. Potential primary pollutant(s) of concern that were addressed through this action are litter, sediment, and debris.



On June 5, 2019, Oakland Schools held an "Electronics Recycling Day" event at in Waterford Township. The collection was open to all Township residents and Waterford Township promoted the event. The primary pollutant(s) of concern that were addressed through this action was hazardous waste.



In addition, Waterford Township has performed the following actions within this reporting period that are helping eliminate/reduce illicit connections and discharges within the Township.

- Waterford Township has partnered with the North Oakland Household Hazardous Waste Consortium (NO HAZ). NO HAZ provides residents of participating communities a safe and environmentally responsible way to dispose of Household Hazardous Waste (HHW). There were a total of 10 collection events that occurred during this reporting cycle and Waterford residents took advantage of each one. The collections were promoted on the website, posted on Facebook, in the enewsletter, Development Services Counter, Channel 17, and Library. Just through the Development Services Department it is known that there was 131 web hits on the Environmental Resource Center page, 4,819 permits were issued and 450 NO HAZ vouchers (2018). Further, there are 4,663 followers on the Township's Facebook page and over 1,000 subscribers to the Township's enewsletter. In part to the potential connection to 10,613 people as estimated above, a total of 65,000 pounds of waste was collected from 450 Waterford participants during the events in 2018 (Note 2019 collection data was not available at the time of preparing this report) The primary pollutant(s) of concern that were addressed through this action was hazardous waste.
- ❖ The Waterford Township Parks & Recreation Department continues to maintain pet waste collection stations with waste bags for pet owners visiting township parks and the main campus to utilize. It is reported that at least 80 bags were taken from each station during the reporting cycle.
- The Waterford Township Parks & Recreation Department maintains 20 "Please do not feed the Geese" warning signs at the Drayton Plains Nature Center and on the Main Township Campus. It is estimated that over 1,000 people have viewed the signs during this reporting period. The primary pollutant(s) of concern that were addressed through this action were bacteria and nutrients.

On September 21, 2019 and May 11, 2019 Waterford Township supported Clinton River Walk clean-up events where volunteers removed trash and cleared brush along the Township's Clinton River Walkway near M-59. 20 volunteers collected 4 yards of trash. Potential primary pollutant(s) of concern that were

addressed through this action are litter, sediment, and debris.

River Walk Clean Up promotional flyer and volunteers

River Walk Clean Up

May 11, 2019

9 00 - 12,00 (nound)

Accordance stellar and stel

On April 22, 2018 and April 21, 2019 Waterford Township, the Waterford School District, and other community organizations held a clean-up event in conjunction with "Earth Day" in which trash and rubbish was collected along roadways and in visible areas in the Township. In total, there were over 300 volunteers and just under 400 cubic yards of debris/trash collected. Potential primary pollutant(s) of concern that were addressed through this action are litter, sediment, and debris.



- ❖ Waterford Township requires the submittal of as-built drawings of the entire site be submitted prior to issuance of a certificate of occupancy. Said as-built drawings shall include building locations, paving, grading, easements, utility locations, landscaping, etc. In conjunction with the data collected from the GPS, this information is being used to contribute to a township wide storm water layer.
- ❖ Upon direction from the Township Board in an effort to better address blight, language was added to the Township's "Waste Materials Control Ordinance" granting the Zoning Official authority to engage the services of a waste hauler to remove garbage from a zoning lot if a property owner fails to comply with the ordinance after one week of written notice. Subsequently, Code Enforcement staff working under the Zoning Official started posting "seven day notices" on zoning lots found to be in violation. In 2018, 38 notices were posted and the Township had to act upon 3. In 2019, 25 notices were posted and the Township had to act upon 1. This has resulted in the removal and proper disposal of approximately 110 yards of garbage, junk, refuse, rubbish, and/or trash.
- Waterford Township has a Workflow complaint response and tracking system and during this reporting cycle 77 complaints under the categories wetlands, woodlands, litter, lowland fill, drainage, other, site plan, construction, or

- abandoned container were inspected by Waterford Township. These inspections resulted in 17 correction letters being processed, and 6 civil infractions issued for violations of the Township's local codes and ordinances.
- ❖ Waterford Township continues to utilize CivicReady to disseminate important messages regarding the safety or welfare of the community. Examples include water service emergencies, lost children or seniors, and hazardous situations that impact safety, property or welfare of our citizens. This service allows Township officials to send out emergency notifications by phone or other contact methods to thousands of residents within minutes. No messages regarding illicit discharges were processed during the reporting period.
- The Waterford Police Department in partnership with the Waterford Coalition for Youth held "Prescription Drug Drop Off" events on October 27, 2018 and April 27, 2019. The events were held in part to keep these potential pollutants from impacting our water systems. In addition, the Waterford Police Department offers a drop off site for unused medications/drugs that are no longer needed. The service is open to the public and includes a posted reminder that it is not safe to flush

medications down the toilet system nor is it safe to wash medications down the drain.

PRESCRIPTION DRUG TAKE-BACK DAY

Battering, Crebble 27, 2015. 19 a.m. - 2 pm.

Where the Committee of the Co

❖ On April 22, 2018 the Parks & Recreation
Department held its annual Earth Day Clean-up &
Crafts event at the Drayton Plains Nature Center.
8 participants walked the grounds and collected
trash and planted seeds. 2 industrial sized
garbage backs of litter were collected. Potential
primary pollutant(s) of concern that were
addressed through this action are litter, sediment,
and debris.



Parks & Recreation's promotional material

Staff continued to coordinate with the WRC's Office, EGLE, or any other proper jurisdiction for follow-up actions for any illicit connections/discharges found outside the Township's jurisdiction. During this reporting period, the following actions were taken by this office in coordination with other agencies.

- ❖ In October 2018, the Development Services Department was contacted by the WRC regarding an inquiry they received from Natural Community Services, LLC on behalf of a couple HOA's interest in pursuing Southeast Michigan Resilience Fund grant opportunity to pursue funding for lake habitat restoration, shoreline bioengineering & associated hydrologic management using green infrastructure. While this area is covered under the Upper Clinton River Subwatershed Plan, and the plan was approved under MS₄ criteria, it was never approved under either the State's CMI rules or the federal 9 elements and the area is therefore not eligible for NPS Program funding. Potential primary pollutant(s) of concern that were addressed through this action are litter, sediment, debris, bacteria, and nutrients.
- Beginning in April 2019, Development Services staff was contacted by the Watkins Lakefront Owners Association in regarding mitigating effects of storm water run-off to Watkins Staff worked with the Lake. RCOC and the WRC to identify potential outfall locations and insure the groups mitigation efforts complied with Township's standards.

Outfall/Storm Drain location maps provided by WRC and RCOC.

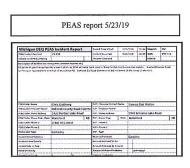
❖ The Development Services Department worked with the owner, AKT Peerless, the Waterford Township Brownfield Redevelopment Authority, the State of Michigan, the MDEQ, and others to develop Brownfield Plan used to finance the eventual demolition of the 1.74 million square foot vacant building and parking lot on the 74 acres property formally known as the Summit Place Mall. Potential primary pollutant(s) of concern that were addressed through this action are litter, sediment, debris, bacteria, asbestos, lead, and nutrients.





2018 Waterford Township Brownfield Redevelopment Authority Brownfield Plan report cover and 2017 Google
Earth aerial of Summit Place Mall property (~74 acres)

- ❖ On October 8, 2019 staff was contacted by the WRC regarding a report that a concrete truck was discharging to a storm drain on Dixie Highway. Staff from the Development Services Department and the MDOT performed site inspections and determined that no illicit discharge had taken place. As a precaution, Staff contacted the company and communicated best practice information with their safety department. Potential primary pollutant(s) of concern that were addressed through this action were concrete, sediment, construction debris.
- ❖ On June 13, 2019, Development Services performed a site inspection after receiving a complaint from the Oakland County Health Division regarding unauthorized grading/filling activity upstream from an existing storm out fall near the Rampart Park beach. Potential primary pollutant(s) of concern that were addressed through this action are litter, sediment, debris, bacteria, and nutrients.
- ❖ On May 28, 2019 Waterford Township staff inspected a gas station in response to a PEAS incident report forwarded to the Township by the EGLE. Staff verified via site inspection that the onsite oil separator was performing as designed and that clean-up efforts were ongoing. Best management practices were communicated with the management. Potential primary pollutant(s) of concern that were addressed through this action are gasoline, oil, hydraulic fluid, and/or coolant.



❖ Waterford Township continued to work with a group of local communities, government agencies and nonprofits in the Oakland County Cooperative Invasive Species Management Area (OC CISMA) to help control the spread of Phragmites. The group employed state-licensed pesticide applicators to address the problem along major roadways throughout Oakland County. Approximately, 5 acres of phragmites were treated within the Township during this reporting period. Potential primary pollutant(s) of concern that were addressed through this action are invasive plants.

Screenshot of OC CISMA webpage and 2019 map of Waterford Twp. treatment areas







❖ A new sign educating individuals on proper watercraft cleaning to prevent the spread of invasive species was installed at the Township's canoe launch. Potential primary pollutant(s) of concern that were addressed through this action are invasive plants



The WRC is responsible for administering the Soil Erosion and Sedimentation Control Act (See Soil Erosion Act, Part 91 of PA 451 of 1994, as amended) within Waterford Township. This program requires that anyone disturbing soil for construction or other earth disturbance to obtain a permit before any work begins. Waterford Township supports the county's efforts by requiring that all applicants that meet this criterion obtain an erosion permit prior to the issuance of a building permit. During this reporting cycle 210 building permits were issued that required erosion permits. Potential primary pollutant(s) of concern that were addressed through this action are litter, sediment, and debris.

Even though no illicit discharges occurred during the reporting cycle, Waterford Township believes the procedures established in the IDEP to inspect its MS4 (outfalls/catch basins/manholes) is an effective way to detect illicit discharges if they ever occur. It is estimated that the following quantities of discharges were prevented or eliminated Township wide through the combined educational efforts and IDEP activities cited in this Progress Report.

| Pollutant                    | Source            | Estimated<br>Amount | Total          |  |
|------------------------------|-------------------|---------------------|----------------|--|
| Household Hazardous<br>Waste | Illegal dumping   | 65,000 lbs.         | 65,000<br>lbs. |  |
| Sediment                     | Construction site | 4,000               | 4,000          |  |
|                              | Illicit discharge | .25 ton             | tons           |  |
|                              | Illegal dumping   | N/A                 |                |  |
| Invasive Species             | Illegal dumping   | 5 acres             | 5 acres        |  |
| Fuels/Oil                    | Illegal dumping   | 50 gal              | 50 gal         |  |
| Pet/Animal Waste             | Illegal dumping   | 400 lbs.            | 400 lbs.       |  |
| Trash/Debris/Liter           | Illegal dumping   | 50,100              | 50,100<br>lbs. |  |
| Soap/Detergents              | Illegal dumping   | N/A                 | N/A            |  |

Given the performance achievements cited above, Waterford Township believes the overall program is highly effective.

## Part 5: Construction Storm Water Runoff Control Highlights

The Development Services Department worked with the owner, AKT Peerless, the Waterford Township Brownfield Redevelopment Authority, the State of Michigan, the MDEQ, and others to develop Brownfield Plan used to finance the eventual demolition of the 1.74 million square foot vacant building and parking lot on the 74 acres property formally known as the Summit Place Mall. The actual demolition commenced in the summer of 2019 and work is ongoing as of the submittal of this report. Potential primary pollutant(s) of concern that were addressed through this action are litter, sediment, debris, bacteria, asbestos, lead, and nutrients.

View looking southerly at of former Sears's building demolition June 2019





Former Macy's building (basement) demolition July 2019



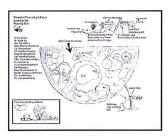
"Picnic" area entrance to former Summit Place Mall June 2019



View looking westerly at of former Macy's building (basement) demolition August 2019

During the spring of 2019, Waterford Township with the help of volunteer efforts of Friends of the Library planned, designed, and constructed a new rain garden near the Library building. 21 engaged stakeholders were involved from the start and were essential in determining the rain gardens location and which native plant species would be used. The built facility is now utilized to educate and inform patrons of the Library the importance of green infrastructure.

Waterford Township Library rain garden design/construction





The WRC is responsible for administering the Soil Erosion and Sedimentation Control Act (See <u>Soil Erosion Act</u>, <u>Part 91 of PA 451 of 1994</u>, as amended) within Waterford Township. This program requires that anyone disturbing soil for construction or other earth disturbance to obtain a permit before any work begins. Waterford Township supports the county's efforts by requiring that all applicants that meet this criterion obtain an erosion permit prior to the issuance of a building permit. **During this reporting cycle 210 building permits were issued that warranted the County's review and/or erosion permits.** 

Waterford Township has a Workflow complaint response and tracking system. Since the WRC is responsible for administering the Soil Erosion and Sedimentation Control Act (See Soil Erosion Act, Part 91 of PA 451 of 1994, as amended) within Waterford Township, all soil erosion complaints are forwarded to the WRC for initial inspection and subsequent enforcement purposes. Further, Township staff will verify the concern is being addressed to the WRC's satisfaction, and, if necessary, issue a stop work order on all active Township permits related to the construction activity until the matter is brought into compliance. This same process will be followed when soil or sediment is

discharged to the Township's MS4 from a construction activity. A total of 11 projects received during the reporting period were issued either a written or verbal stop work order as a result of non-compliance Part 91 non-compliance. All 11 were ultimately resolved in part to stop work orders.

Waterford Township will use the process for EGLE notification when soil, sediment, or any other pollutants are discharged from a construction site to the MS4 consistent with any other "illicit" discharge to the MS4 as identified in the Township's IDEP (Attachment C). Specifically, unless a determination is made that the pollutant is not in excess of the threshold reporting quantities in the Part 5 Rules, staff will report to the MEGLE District Office or Pollution Emergency Alert System (PEAS) if after hours. If it is a Part 5 Rules material (oil causing visible sheen or >50 pounds of salt or listed pollutants over certain amounts) also immediately report to 9-1-1. Further, a written report to the MDEQ District Office will be made within 10 days of the incident. **No discharge occurred to the Township's MS4 that warranted MDEQ notification.** 

Waterford Township's engineering design standards related to the site plan review process assures that any earth disruption of more than one acre or within 500 feet of a lake or stream or adjacent to any protected wetland will require a Part 91 permit from the WRC. Further, prior to construction the Township has "checks" in place as part of the issuance process of local construction permits to assure that the developer secures all applicable agency permits for the approved site plan, including a Part 91 permit for the development. This same process will be followed for proposals that may impact the Township's MS4. Again, during this reporting cycle 210 building permits were issued that warranted the County's review and/or erosion permits. One project, Waterford Township's parking lot rehabilitation project on the main campus, required the Township to obtain a soil erosion permit. Further, Storm water pollution prevention is discussed at each pre-construction meeting. Contractors, Township field staff, and designers are reminded of storm water pollution prevention requirements and that all the stormwater systems within the Township ultimately drain to the Clinton River and must be protected. Site specific stormwater pollution prevention and soil erosion control items are also discussed for each project. Eight (8) pre-construction meetings occurred during the reporting period resulting in a total of 170K cubic foot in detention, 13k cubic foot of leaching, 9k cubic foot of sedimentation, and 4k in bio-retention.



Suburban Ford of Waterford ongoing construction August 2018 Specific language related to the State of Michigan Permit by Rule (Rule 323.2190) does not currently exist within local ordinance or local design standard documents beyond the aforementioned references pertaining to an applicant obtaining the Part 91 erosion control permit. However, the entire staff at the Development Services Department is aware of the Permit by Rule provisions and all perspective contractors, developers, and engineers are informed of their responsibility under Michigan law/rule to obtain adequate State of Michigan Permit by Rule coverage when applicable. **Nothing to report** 

# Part 6: Post Construction Storm Water Runoff Program Certification statement

Waterford Township did not have any development or redevelopment projects that would be subject to the post-construction standards within the permit cycle 2016-2021. Again, if Waterford Township were to have any development or redevelopment within that timeframe that impacts the MS4, the Township will adhere to the standards in the application. **Nothing to report** 

## Part 7: Good Housekeeping & Pollution Prevention Training Highlights

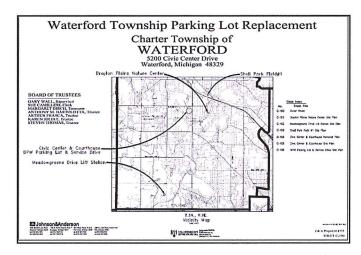
Good Housekeeping: The following are actions taken by Waterford Township that went above and beyond our day to day good housekeeping efforts committed under the MS4 permit.

❖ Dry weather inspections of the Township's MS4 outfalls/catch basins/manholes during the reporting period did not reveal any dry weather flow. In addition, there were no illicit discharges to the regulated MS4 or receiving water body (i.e. the Township's retention basin). However, during the 2018 Parking Lot Replacement project 3 catch basins just upstream of Outfall #1 in the Township's retention pond (see below) were deteriorating and some infiltration of sediment was noted within the sump. As a result, the DPW made repairs to the CBs as part of the project.



❖ Based on an evaluation of the condition of portions of the bituminous pavement that makes up the drives and parking lots servicing of its main campus, Waterford Township was prompted to budget for and initiate a Campus Pavement Repair project that started in 2018 and ending in 2019 totaling \$370,647. The project included milling and resurfacing throughout the main campus. Staff ensured that soil erosion controls were maintained and that BMPs like sweeping were utilized when needed throughout the project.





Aerial of parking lot improvements and cover sheet of construction plans

❖ Due to number of Canadian Geese present on the main campus and the resulting nuisance waste, the DPW has made efforts on 12 different occasions to remove the animal waste from the campus parking lots and storm drains prior to it ending up in the retention pond.

**Staff Training:** Per the MS4 permit, field Staff should be trained for identifying and eliminating illicit discharges and pollution prevention or good housekeeping techniques on municipal property. Such training shall occur at least once every five years, with new hires being trained within the first year of employment. There were no new field staff hires made during this reporting period. However, the following training efforts for current employees did occur during this reporting period.

DPW field staff attended Illicit Discharge Identification Workshop (IDEP Training) offered by the Wayne County Department of Public Services, Water Quality Management Division held in Rochester, MI on April 12, 2018.

❖ The DPW continues to utilize an on-line Safety Data Sheet (SDS) program to ensure accurate and up to date information related to materials utilized by the DPW to comply with Federal and State law. This web-based program provides all relevant SDS information for various chemicals used in the DPW (like pesticides, herbicides and fertilizers) and provides automatic updates and alerts when SDS information changes for specific chemicals. Since implementation of the on-line SDS program, the list of tracked chemicals has grown from 192 to 460. In 2016 the Safety Branch introduced the mobile applications version of MSDSonline which allows all DPW employees with a Township issued phone or tablet to get access to the DPW chemical list instantly when they are at remote water & sewer sites.



- ❖ Development Services staff viewed ASCE's *Pathogens in Urban Storm Water Systems A Practical Guide for MS4s*: Description webinar that explained key issues related to FIB and pathogens in urban storm water systems, including regulations, urban sources, modeling, monitoring, statistical analysis, source tracking, source controls, structural Best Management Practices (BMPs), TMDL case studies, and research needs.
- ❖ Development Services staff attended SEMCOG University: One Water Campaign workshop on April 17, 2019 at SEMCOG offices in Detroit, MI.
- ❖ Development Services staff attended Stormwater Pollution Prevention & Good House Keeping (PPGH) & IDEP Alert Observer Training through SEMCOG University on October 23, 2019 in Lathrup Village Community Center.
- ❖ All contractors involved in landscaping must agree to abide by contractual requirements regarding clippings and applications. No new contracts for these services were executed during the reporting period.

Waterford Township staff took advantage of the following training opportunities that helped further awareness of the goals and provisions of the MS4 permit.

- \* Re-Imagining the Built Environment: a forum hosted by the Michigan State University Center for Community and Economic Development on May 7, 2018 in East Lansing, MI. The event connected a broad stakeholder network of thinkers and doers to discuss promising policies and practices that can help us re-imagine our built environment, reduce our reliance on non-renewable resources, and improve community vitality.
- \* The Tree Course: Science, Design, and Sustainability: 8 hr. seminar presented by Halfmoon Education, Inc. on February 22, 2019 promoting trees in urban and construction environments, the understanding soil deficiencies, the importance of soils for sustainable mature trees, increasing urban tree canopies by ensuring

trees live to maturity, and avoiding unsustainable landscape designs. Technical insight on tree training, proper pruning and planting practices, biomechanics, soil and water management, urban forestry, tree biology, and healthy root system development.

- \* ASCE's An Introduction to Life Cycle Cost analysis for Sustainability and Green Building Design: Description webinar that discussed to ensure that a uniform universal standardized method is used for LCC calculations and evaluating the economic performance of investments in building related to energy, Green Buildings, and sustainability: simple examples related to buildings are provided to illustrate the application of the methodology.
- ASCE's Climate Resilience for Critical Infrastructure: Description webinar discussed climate resilience with a special focus on extreme precipitation for non-stationary processes, developing an appreciation of the observational method and adaptive design, develop an understanding of extremes in a changing climate.
- ❖ ASCE's *Flood Design for a Changing Climate*: Description −webinar that discussed ways that climate change, especially sea level rise, can and should be included in flood designs.
- ASCE's Storm Water Management Alternatives for Small Commercial Sites:

  Description webinar that explained alternative approaches to storm water management on small commercial sites that can reduce costs, improve aesthetics, meet the storm water regulations and possibly provide LEED credits for the project.
- ASCE's Sustainable Transformation/Rehabilitation of an Urban Corridor:

  Description webinar that explained traffic calming devises, Integrate multimodal transportation strategies, expand the public realm, mitigate disturbance to businesses during construction, stakeholder involvement, and navigating through multiple government needs, requirements, and future goals
- ❖ ASCE's *Transforming Urban Water Management*: Description webinar that explained this webinar presented the technical, financial, and economic tools needed to implement Community Water and Energy Recovery Centers (CWERCs).
- ASCE's *The Infrastructure Challenge: Prioritization*: Description webinar that explained the ASCE Grand Challenge to reduce the life cycle cost of infrastructure by 50% by 2025 and foster the optimization of infrastructure investments for society.
- ASCE's Sustainable Infrastructure Using Envision to Plan, Design and Rate Infrastructure Projects: Description webinar that explained the Institute for Sustainable Infrastructure's ENVISION™ rating system which is a new tool designed to recognize and encourage sustainable infrastructure development.
- ❖ ASCE's Stormwater Constructed Wetland Design: Description − webinar that provides a better understanding of how to utilize stormwater wetlands to achieve water quality and quantity treatment goals. The presentation will also demonstrated how to find and understand the regulatory requirements for your

- projects, review the latest research findings, locate sources for design guidance and present practical design considerations through an example site evaluation.
- Michigan Water Environment Association's Watershed and Stormwater Seminar on December 4, 2018 at Lansing Community College West Campus.
- ❖ LAWRENCE TECHNOLOGICAL UNIVERSITY'S REGIONAL STORM WATER SUMMITs in 2018 & 2019: Description − These all day summits were a collaboration of Lawrence Tech, the Oakland County Water Resources Commissioner's Office and the nonprofit group Pure Oakland Water (POW). Topics discussed at the summit included green infrastructure and other best construction practices, evaluation and maintenance of stormwater programs across the Great Lakes region, advocacy and legislative updates, climate change, and regional collaboration.

## Part 8: New Point Source Discharges of Storm Water

Waterford Township has not found new storm water point sources entering its MS4 separate storm water drainage system.

## Part 9: Nested Drainage System Agreements

The Township believes there are several Nested MS4s within our borders that have regulated separate storm sewers. These Nested MS4s include the Waterford School District, Oakland Intermediate School District, Oakland Community College (OCC), Oakland County Water Resources Commissioner (WRC), and Road Commission for Oakland County (RCOC), Michigan Department of Transportation (MDOT), and the Michigan Department of Natural Resources (MDNR). To date, Waterford Township has no agreements with any "Nested Jurisdictions" and there has been no known change in the status of the nested jurisdictions within the township limits.